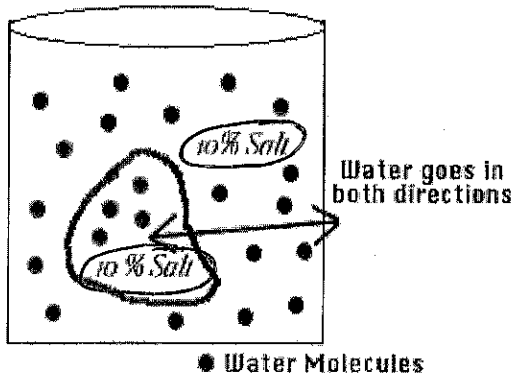


# Osmotic Solutions Key

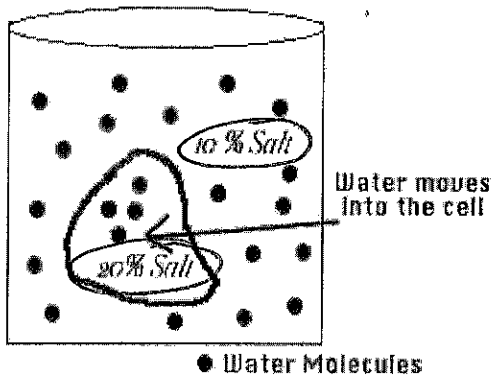
## Solution is Isotonic



If the concentration of solute (salt) is **the same** on both sides, the water will move **in and out (back and forth)** but it won't have any result on the overall amount of water on either side.

"ISO" means the **same**

## Solution is Hypotonic



The word "**HYPO**" means **less** in this case there are less solute molecules outside the cell, since salt sucks, water will move **into** the cell.

The cell will gain water and grow **larger**. In plant cells, the central vacuoles will fill and the plant becomes stiff and rigid, the **cell wall** keeps the plant from bursting

In animal cells, the cell may be in danger of bursting, organelles called **CONTRACTILE VACUOLES** will pump water out of the cell to prevent this.